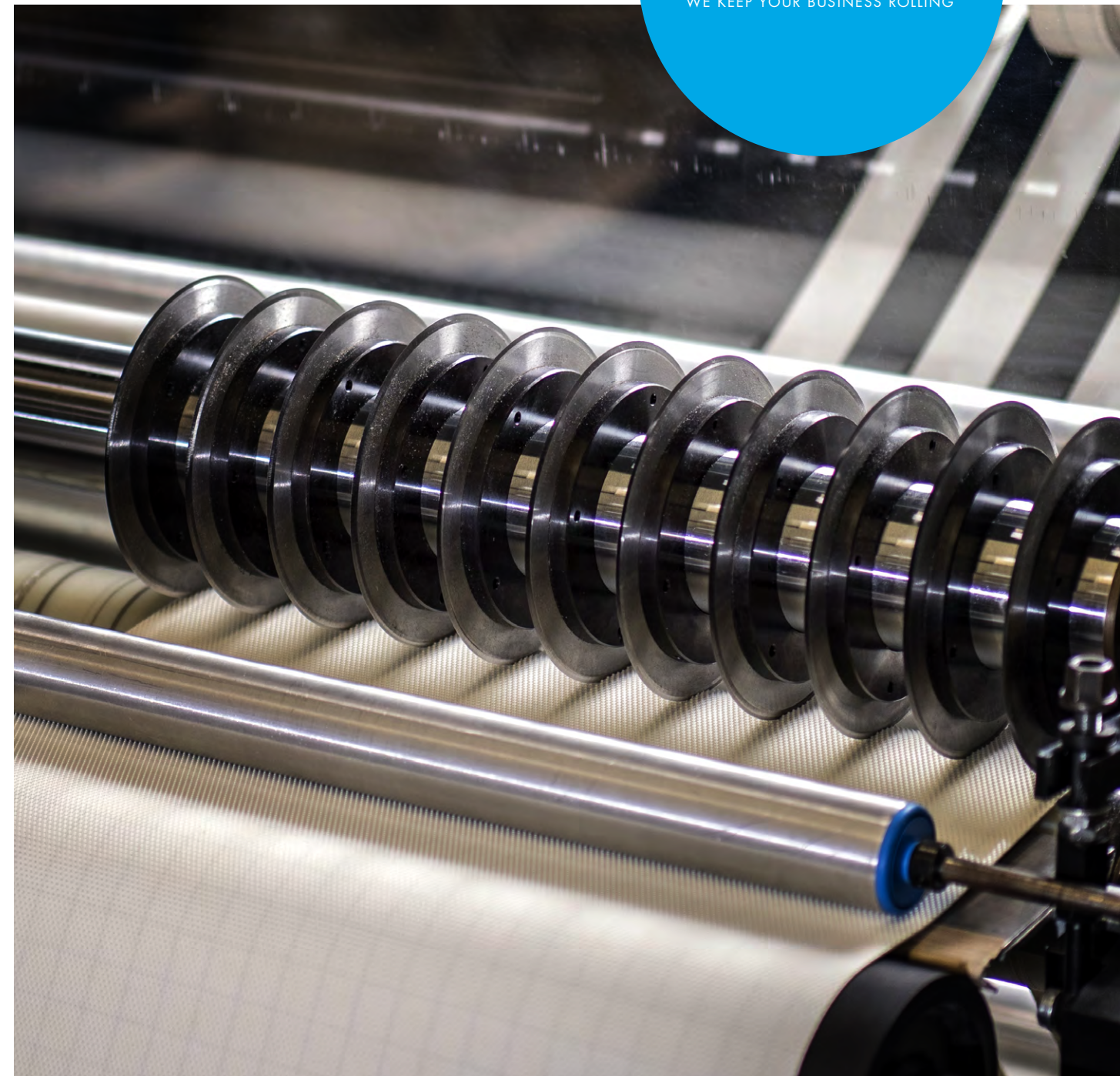


Industry expertise in perfection

Always one step ahead



BOBOTEX® Hans Ladwig GmbH & Co. KG
Spitzenstraße 35 • 42389 Wuppertal / Germany

PHONE +49 (0) 202 / 60 707-0
FAX +49 (0) 202 / 60 707-29
MAIL info@bobotex.de
WEB www.bobotex.de

WE KEEP YOUR BUSINESS ROLLING



We keep your business rolling

We live in a time that is characterized by dynamic processes and rapid changes. That which is state of the art today will be obsolete tomorrow. Executive board members and corporate decision-makers from the industry expect the sectors to experience greater change in the next five years than they have in all past decades. Well over 80 percent of top industrial decision-makers believe that technological breakthroughs, such as artificial intelligence, the IOT (Internet Of Things) and data-based business models will fundamentally change the markets. The ability to respond flexibly to rapidly changing markets, customer desires and requirements has never before been as important as it is today.

In such times, it is a good thing if you can count on a partner who is at your side with constant problem-solving competence, individuality and top quality. Due to our consistent closeness to

our customers, our commitment to the development and production of products and, in particular, the experience gained from our work in various industries, we can sustainably support you in all of your challenges. BOBOTEX® Hans Ladwig GmbH & Co. KG not only offers measurable services for industries and markets, each with their own very specific requirements, but also tailored solution methods for highly specific systems, machines and plants.

We are prepared for the changes in the market and new challenges.



OLIVER JUNG
GESCHÄFTSFÜHRENDER GESELLSCHAFTER



MICHAEL ECH
GESCHÄFTSFÜHRENDER GESELLSCHAFTER

Content

We, BOBOTEX®, see ourselves not only as a “supplier” to our customers, but also to a great extent as an industry partner and competent consultant. With and for our customers, we develop optimal, individual solutions for roll covers.

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WHAT OUR CUSTOMERS SAY

→ COMPETENT AND FLEXIBLE

We have been working with BOBOTEX® for decades. We are consistently surprised at the competence and flexibility with which our desires are implemented.”

AL W. THOMAS
FRANKL & THOMAS, INC., USA

→ QUALITY AND PROMISE

“For us, “made in Germany” is linked with a high standard of quality and punctuality. BOBOTEX® precisely meets this requirement with each new challenge.”

MARCIO MANO
TEXMAN IND. E COM. LTDA., BRAZIL



**Absolute top quality,
the utmost reliability and
always one step ahead
in terms of innovation**

COMPETENT

Success has many factors – for our customers, as well as for us: Innovative strength, problem-solving competence, top quality, individuality, customer proximity. And not least, commitment and passion in the development and manufacture of products.

→ OUR CONDUCT

Foresighted, committed and with the motivation to be a success factor for our customers. In Germany, Europe and worldwide: We are there with our know-how and experienced employees, whenever and wherever our customers need us. We supply our customers directly and offer them the best possible service with our approx. 50 sales partners worldwide.

→ OUR AWARENESS

Nothing is so good that it cannot be made better. Our top position in the market was not a gift. Each day,

every day we must be better and more flexible than the competition to successfully maintain our top position. To achieve this, we maintain a close and regular dialogue with our customers and partners.

→ OUR KNOWLEDGE

Continuous investments in our research & development, our machines and in our quality management are an essential basis in this regard. No less important are our investments in our employees, this also includes the transfer of knowledge. The experience gained over decades is integrated in all corporate processes.

We are located in Wuppertal, the cradle of the German textile industry

Established here in this historic location, BOBOTEX® is committed to this tradition, which is characterized by craftsmanship, quality and the spirit of innovation.



Wuppertal is the cradle of the textile industry; more than 150 years ago it was already one of the most important centres of the European textile industry. Textile companies from our region are still measured by this tradition today.

You cannot refer to this tradition and not desire to carry on in its spirit. Craftsmanship, quality and innovative spirit are not inherited, but rather are demands imposed by this tradition.



LOCATION
Wuppertal

1978

FOUNDATION
The company was founded by Hans Ladwig and Wolfgang Jung in Wuppertal-Barmen.

**1981
RELOCATION**
After three years relocation to a larger plant had already become a necessity.

**1985
CHANGE OF LOCATION**
Necessary extensions require relocation to a new site.

**1989
PRODUCTION FACILITIES
PURCHASE**
Purchase of a production plant in Wuppertal-Langerfeld.

**1995
INNOVATION DEVELOPMENT**
Introduction of thermoplastic polyurethanes as roll covers by BOBOTEX®.

**1996
A NEW GENERATION**
When Oliver Jung joined the executive board, leadership of the company transitioned to the second generation.

**1998
SITE EXPANSION**
Acquisition of the current production site.

**2011
CHANGE OF OWNERSHIP**
Oliver Jung and Michael Ech become sole owners; Michael Ech is appointed as an additional managing director.

**2018
COMPANY ANNIVERSARY**
40 years of tradition at the Wuppertal location.

We are not only
proud of our location
and its tradition,
we are also committed
to both.

Convincing quality

Absolute quality of material and manufacturing is required for the tough day-to-day use of our roll covers. Consequently, we keep three quality characteristics that are sustainably convincing, firmly in focus.



Our roll covers are always the first choice and are always a reliable component for your success. That's a promise!

- 1 QUALITY IS EFFICIENT**
 Only products with the best raw materials, the highest stability and minimal wear can ensure optimal, efficient, and high-performance plant operation. Ultimately efficiency and profitability count.
- 2 SEAMLESS QUALITY ASSURANCE**
 Our quality management starts with product development and continues through the manufacturing process and extends to implementation in the customers' facilities. Top quality "made in Wuppertal": This is what the name BOBOTEX® has stood for, over more than four decades. And we are doing everything we can so that it remains that way in the future. Guaranteed!
- 3 INDICATOR OF QUALITY**
 Of course, the high satisfaction of our customers is the most reliable indicator of the quality of our products and services. Trust is good, control is better. Consequently we subject ourselves to independent testing. The following certificates and standards are available for the company and its products:
 - Since 1995 production in accordance with EN-ISO 9001
 - Shore hardness testing in accordance with DIN 53505
 - Fabric testing in accordance with DIN EN 13934-1
 - Abrasion testing of rubber compounds in accordance with DIN 53516
 - Abrasion testing in accordance with DIN 53863 (Schopper)

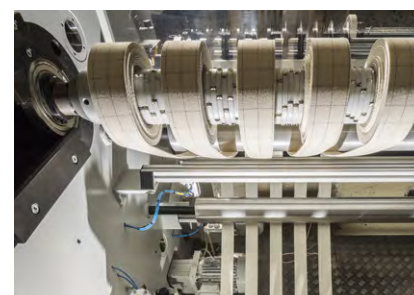
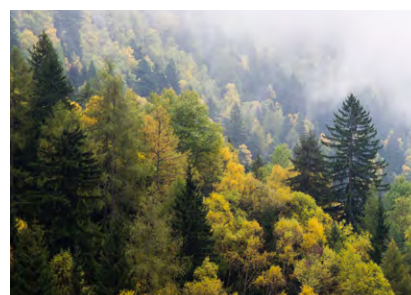
→ We have developed an individual sample binder for each industry. We cordially invite you to visit our production facility in Wuppertal. Experience our production systems and our products for yourself. Simply make an appointment for a meeting in our showroom and send us an email at info@bobotex.de.



HIGH END



We produce our products at our historic site in Wuppertal with the know-how of a quality and technology leader.



PROCESSES

The combination of automated workflows and skilled craftsmanship enables efficient and cost-effective manufacturing, as well as a high degree of individuality and perfection of the end products. Qualified employees ensure optimal quality control over the entire production chain.

State-of-the-art production facilities and proximity to development are the basis for the optimization and cost-effectiveness of all production processes.

ENVIRONMENTAL PROTECTION

Naturally our production plants and processes meet all current and strict requirements for occupational health and safety and environmental protection.

For us the balance between economic returns, environmental protection and social responsibility is a fixed component of our corporate culture.

MANUFACTURING

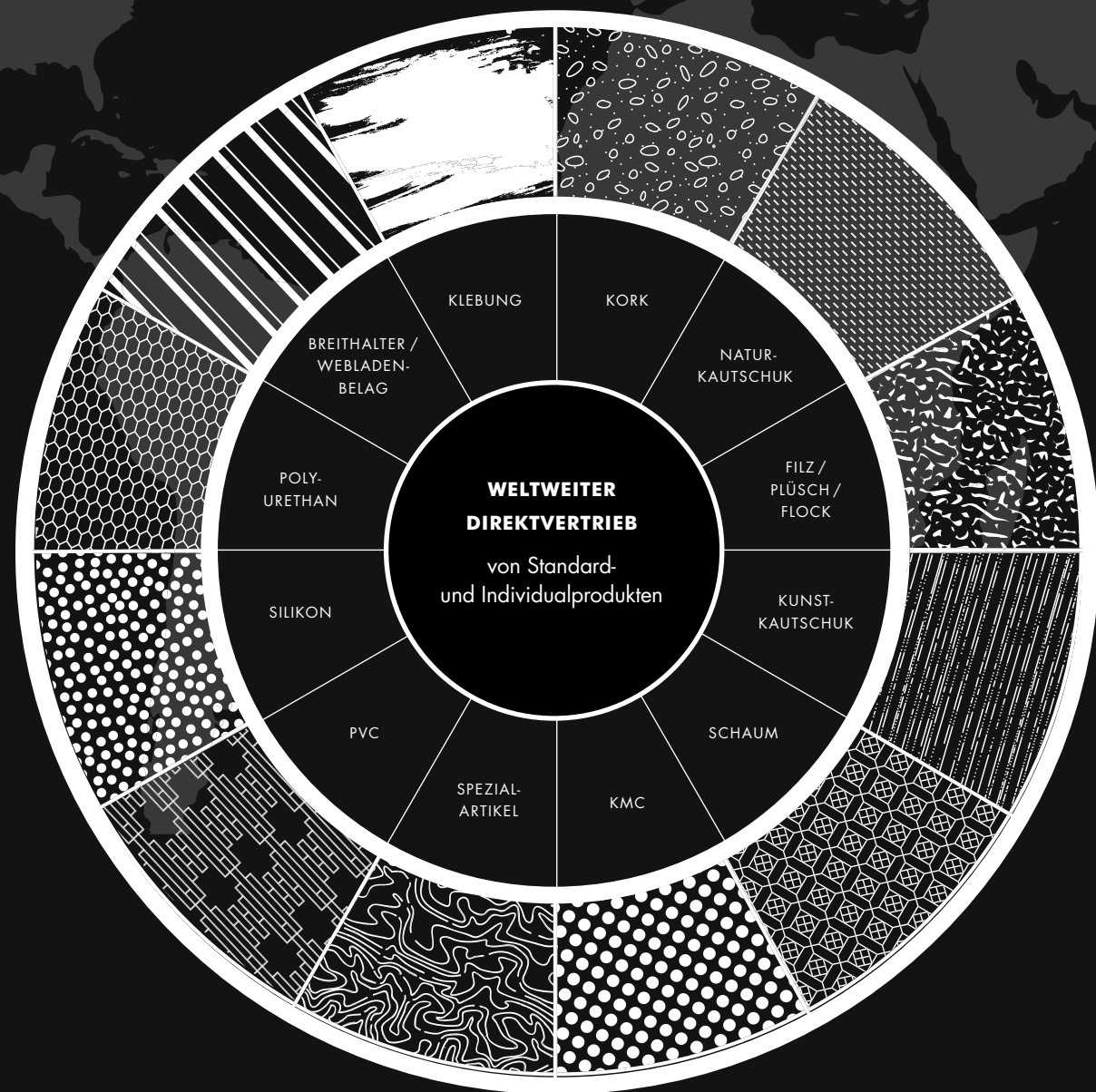
For production of our extremely diverse product range, we maintain an extensive machine park, which enables for us complete manufacturing of products and guarantees the highest quality standards.

Currently we are manufacturing on the following equipment

- Automatic vulcanising machine/ rotary vulcanising machine (Auma)
- Vulcanisation press
- Extrusion line
- Embossing calender with embossing rolls of varied structures
- Stentering frames
- Weaving machines for our special fabric

**The production
processes we have
selected guarantee
the highest possible
efficiency and
product quality**

Unser ganzes Spektrum an Walzenbezügen

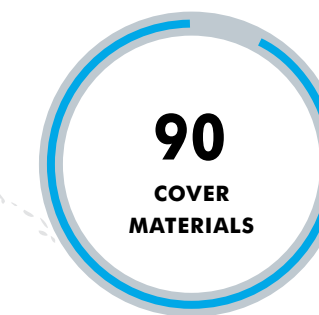


BOBOTEX® produces and delivers virtually the entire variety of roll covers for the textile industry, foil industry and paper industry, as well as the printing industry.

MORE THAN JUST PRODUCTS

Our services cover the entire value chain: from problem analysis to expert advice, from process and material development to production and delivery.

Whether with our proven successful products or specific tasks: Personal contact and continuous exchange with our customers and users are top priorities for us. This is the only way we can achieve optimal results together.



Immediate production and delivery
150 additional materials to produce and deliver on short notice



as well as customer-specific solutions

WORLD- WIDE

A single source for products and services

PORTFOLIO

Our portfolio is as versatile as it is innovative, industry-specific concepts are well thought-out and tried and tested in practice. Our work method is characterised by know-how and many years of experience. Based on the industry focus, our service portfolio provides the right support for your success.

We offer each of our customers a comprehensive, tailored and sustainable range of services and consulting, together with the appropriate professional competence and in-depth industry knowledge. Our industry knowledge ranges from the textile industry to the paper and foil industry with all their sub-areas. We are experts in the field of roll covers for machines and equipment – whether standard or special machines.

EXPERTISE

Our national and international customers have relied on our expertise for more than four decades. We also make our expertise available to other sectors, such as the bakery industry, the laundry industry and special-purpose machinery manufacture. In our company you will find experts who provide optimal solutions that are suitable for your requirements or application. Our portfolio of products, materials and selected services ensures maximum productivity.

BOBOTEX® Hans Ladwig GmbH & Co. KG is one of the world's leading manufacturers of roll covers. This is not only how we measure our performance, this is also our own internal expectation and motivation for maximum quality every day.

BOBOTEX® Hans Ladwig GmbH & Co KG offers individual products for every application and many industries. Six representative industries that we supply are presented in detail below.

INDIVIDUAL



TEXTILE INDUSTRY



PAPER INDUSTRY



FOIL INDUSTRY



BAKING INDUSTRY



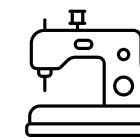
LAUNDRY INDUSTRY



SPECIAL-PURPOSE
MACHINERY
MANUFACTURE

Always one
step ahead

SUSTAINABLE



01 /

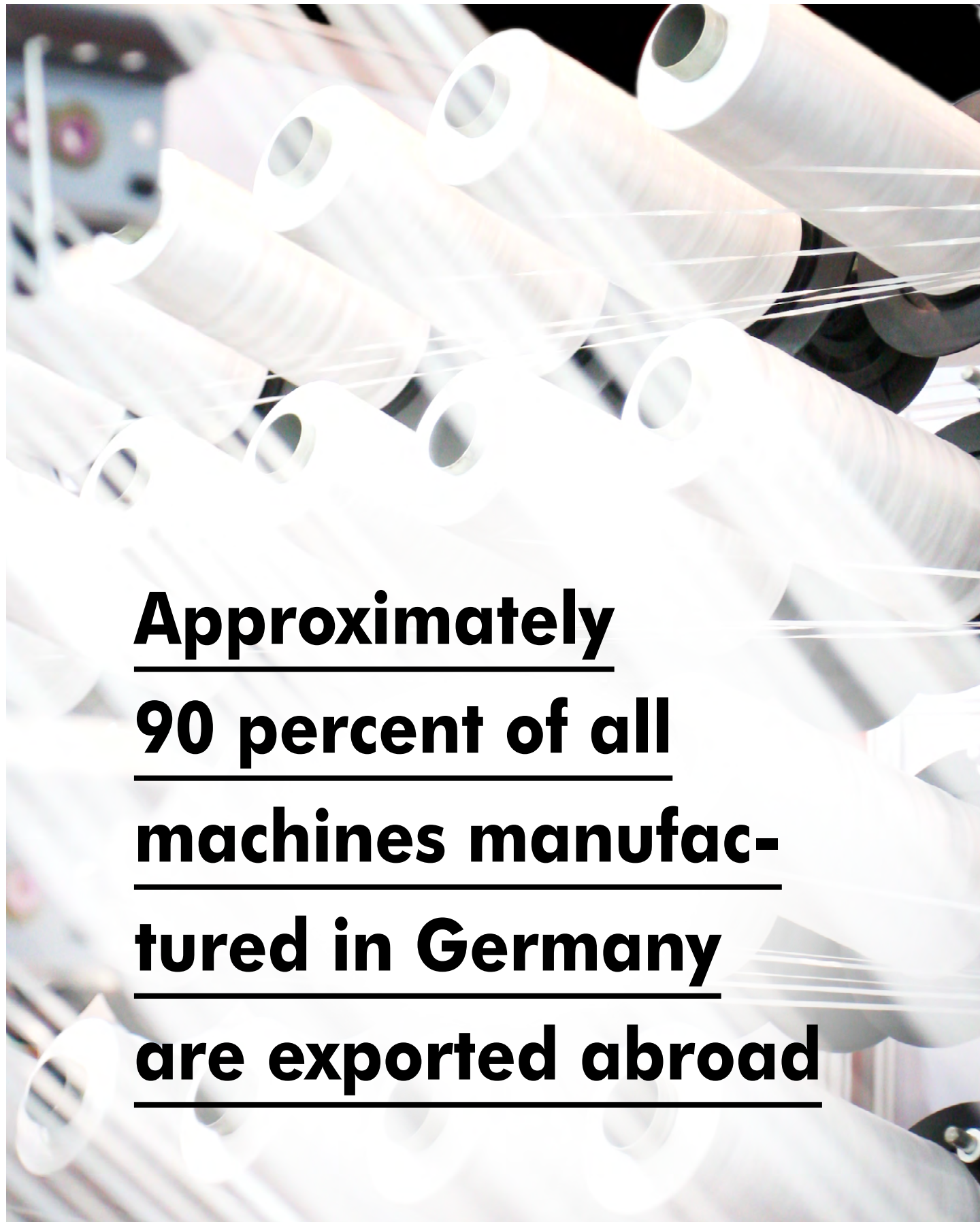
Competitive
in the future

One of the biggest challenges in different industries is the development of competitive, economic and sustainable solutions.

Smart textiles, in addition, enable intelligent supplemental functions for sports, business and health. Also there is an increasing focus on technical textiles. These are sophisticated products with a demand that is constantly rising, for example, for medical technology and vehicle manufacturing.

How can the textile machinery industry meet these requirements and assert itself in the face of dynamic competition over the long-term? We deal with questions

like this everyday and so do our customers. Our customers in the textile machinery industry are particularly challenged to implement selective adaptations of machines and processes for new products in order to produce textile innovations. This requires a new perspective for every detail. Together with our customers, today we are already working on the solutions for tomorrow. Together let us find answers and solutions to the current and future challenges facing the textile machinery industry!



**Approximately
90 percent of all
machines manufac-
tured in Germany
are exported abroad**

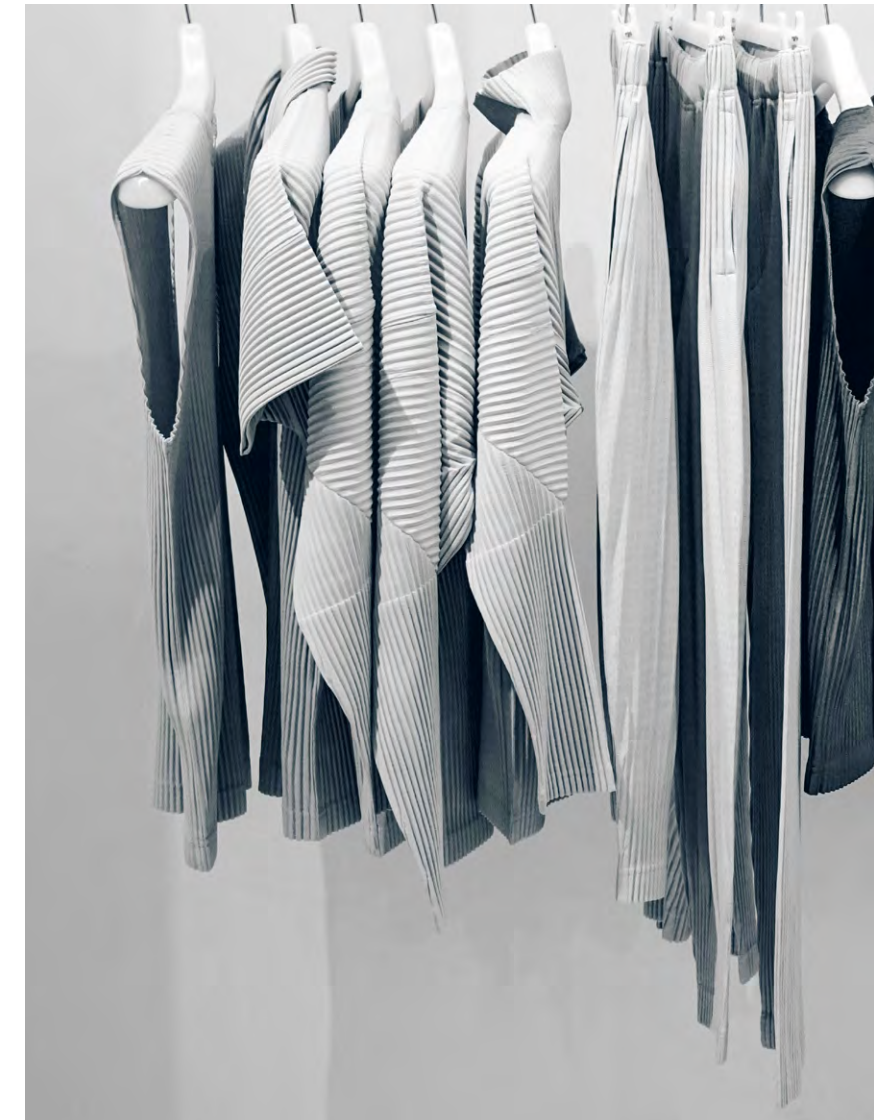
SHAPING THE FUTURE

With our expertise in roll covers, we want to pro-actively participate in shaping the transformation of the textile machinery industry. In this regard we stand side-by-side with our customers as partners when it comes to major future trends, such as the Textile Industry 4.0.

The combination of information technology and manufacturing processes will result in completely new products and production techniques. We pull together with our customers when the task at hand is developing new, tailored solutions for specific requirements. In addition, we offer a comprehensive portfolio of advanced roll covers for the established textile machines of today and tomorrow.

—
Our products are subjected to continuous testing and further development.

Approximately 90 percent of all machines manufactured in Germany are exported abroad. Analytical thinking and creativity are the prerequisites for this worldwide success. In this regard rollers are the heart of optimum operation for any textile machine. Roll covers from BOBOTEX® are an essential component for a smooth production. With our tailor-made product portfolio we cover virtually the entire spectrum of the textile machinery industry.



Textile machines work at high speeds and are subject to high loads due to temperature, pressure and chemicals. In addition, they are under strong pressure to innovate and frequently they produce a wide variety of articles with a corresponding wide variety of set-up processes. Their design must not only meet economic requirements but also ecological requirements. Our products meet all these requirements in every respect. In this regard, good is not good enough for us. See for yourself!

YOUR ADVANTAGE

The quality of our products is a success factor for the many challenges and influences that our customers must face on the market.



DIVERSE



02/

**All paper is
not the same and
all roll covers
are not the same**

There are more than 3,000 different types of paper for four grade ranges alone: Packaging papers, graphic papers, hygienic papers and papers for technical and special applications.



We at BOBOTEX® see ourselves as a partner of the paper industry and support our customers with comprehensive know-how.

Paper machines are true high-tech wonders and quite simply they are among the largest industrial plants. Over ten metres wide, up to 200 metres long, and as high as three storeys, they produce paper webs up to a thousand kilometres in length every day and have more control circuits than a jumbo jet.

HIGHLY DEVELOPED

Modern high-performance machines with wire widths of up to twelve metres produce several hundred thousand tons of paper per year. To ensure trouble-free operation, you need properly functioning rolls with highly-developed roll covers. BOBOTEX® offers a comprehensive range of highly-developed products for the requirements of the paper industry.

Paper machines are true high-tech wonders and quite simply they are among the largest industrial plants.

YOUR ADVANTAGE

The diversity of our products is not a question of perspective, but rather the response to markets. The markets of our customers are changing, and so is our diversity.

INNOVATIVE

PRODUCTS FOR MORE PRODUCTIVITY

New technologies are making paper machines faster, more complex and more efficient. At BOBOTEX®, we accompany our customers through this dynamic development with individual solutions for flexible requirements.

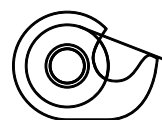
For companies in the paper industry, a high degree of flexibility is essential if they must adapt quickly to changing boundary conditions and new market conditions. Our products offer high stability, low wear, as well as absolute material and manufacturing quality. They are designed to improve the performance of the paper industry and ensure continuous, efficient plant operation.

Ultimately only one thing counts for our customers: maximum profitability.



Photo: Bong GmbH

We see ourselves as
an innovation provider
for customer-specific
solutions



03/

Worldwide trust through constant dialogue

There is hardly any other industry that produces such a wide range of applications as the foil industry. Modern high-performance foils are used not only in the packaging sector, but also in the construction, automotive and electronics industries.

Whether automotive foils or surface protection foils for electronic devices and displays, electrically conductive copper or aluminium foils, or weather-resistant and UV-stable window and façade foils. Foils for electrical insulation, such as glass-fibre reinforced polyester foils, traffic safety foils for road marking, for example, advertising technology foils, anti-graffiti foils, reflective foils, heat-conducting or insulating foils, for example for refrigerators or foils with light-scattering effect for LEDs.

The application areas of modern foil technology are virtually limitless and new application areas are being added on a continuous basis. Experts from

our company daily observe the rapid development of the foil industry, as well as the increasing requirements imposed on man and machine. These assessments are integrated into all of our further developments and are an essential component for the maximum quality of our products.

OPTIMAL PROCESS FLOWS

As varied as the fields of application are – that's how innovative the technology behind these innovations is. In addition to the call for ever faster and more efficient machines, the demands imposed on flexibility and quality are also increasing. These are highly functional production

lines that are precisely tailored to the application areas and their requirements. And so are the products from BOBOTEX®, which as an important piece of the puzzle contribute significantly to optimal production processes. We see ourselves not only as a supplier and problem solver, but also as a partner and consultant for our customers.

WAFER-THIN AND EXTREMELY RESILIENT

Foils are mass-produced goods and are processed by our customers on high-performance machines. Products with material thicknesses of a few µm are manufactured or refined in both metal

foil and plastic foil production. The production process must run smoothly and with absolute precision. Similar to the requirements in the paper industry, it is important to maintain absolute consistency of web tension over the entire speed range. Even the most minute deviations in the specification can cause disruptions in the subsequent processing and thus great administrative effort and high production costs.

WORLDWIDE TRUST THROUGH CONSTANT DIALOGUE

Roll covers from BOBOTEX® are always the first choice for first-class plant operation – whether individual development or standard products. We supply virtual-

Our products stand for optimal process flow.



ly the entire range of roll covers for the foil industry and, in close dialogue with our customers, we are constantly working on optimising our roll covers in line with developments in the industry.

The world's leading companies in the foil industry rely on us as their strategic partner and benefit from our many years of experience for all their machine construction and plant construction projects. Our consulting competence is something you can simply rely on.

YOUR ADVANTAGE

There is no "off-the-shelf problem", but there are individual solutions. Through ongoing further developments there are also answers to your questions.



CREATIVE



04/

Product variety **with pleasure**

Today, the production of bread and bakery products is one of the most important segments of the food industry – measured by the growing turnover and employment figures and the increasing number of businesses.

While the bakery trade is losing more and more weight, the importance of the bakery industry is growing at an increasing rate.

Hardly any other sector of the food industry has developed with such a high level of complexity. The requirements in the baked goods industry are as varied as the creative offering of the baked goods themselves. Today, first and foremost products must be individual so that they

are differentiated from the competition. In addition, innovation cycles are becoming ever shorter. Our market position shows that BOBOTEX® offers optimal solutions for the bakery industry. We are one of the leading manufacturers of roll covers for various branches of industry, with approx. 120 worldwide sales partners and we offer a wide variety of materials for use in machines and plants of the bakery industry. All of this makes BOBOTEX® a reliable and strong partner.

As a problem solver, we work together with our customers to find a sustainable and economical solution



INDIVIDUAL SOLUTIONS FOR YOUR SUCCESS

A growing product diversity on the one hand, increasing cost pressure on the other – the bakery industry demands production that is just as flexible, as it is profitable. Moreover, changing consumer habits and rapidly changing trends require companies to constantly adapt their production processes. Solutions with a high degree of automation are not an unessential approach in the packaging sector. Benefit from our competence and many years of experience in the field of industrial plants.

MASTERING CHALLENGES

In terms of product offering, competitiveness, cross-border trade and investment in modern plants, the bakery industry has developed into an innovative industrial sector that accounts for a large share of the daily diet of millions of consumers. The biggest challenges facing the industry include the downturn in many economies, volatile world markets and the rising costs of raw materials. These are similar to the challenges in other industries that we have been successfully serving for many years. To find answers to the central questions of



the bakery industry, at BOBOTEX® we bundle our competencies and have a constant exchange with our national and international customers and partners.

where our diversified service offering is in demand. As a problem solver, we work together with our customers to find a sustainable and economical solution.

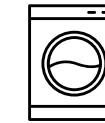
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Let us support you with tailored solutions for your production lines.

PROBLEM SOLVER WITH A LARGE PRODUCT RANGE

Efficient production processes that generate the highest quality at reduced costs are our declared goal. Three things are crucial for production of baked goods on an industrial scale: high throughput, consistent high product quality and high plant availability. In order to achieve all this, we support our customers with comprehensive consulting know-how. Frequently this involves developments to increase production efficiency or innovative products and materials for a wide range of applications. This is

YOUR ADVANTAGE

Our services are as individual as the baking industry itself. Our R&D department is permanently engaged in further development of products and materials, as well as the testing of new processes.



05/

Focus on growth targets

In the laundry industry, large quantities of laundry items – whether work clothing, bed linen or hospital or hygienic linen – are washed with the lowest possible utilisation of energy and resources.

To achieve optimum cleaning performance with low environmental impact, the respective washing processes must be precisely tailored to the specific requirements.

There are also special demands, for example in the area of work clothing. Sensitive production areas, such as in the electronics industry, require particularly dust-free and lint-free work clothing. Hospital linen is cleaned with special disinfecting washing procedures. Commercial laundries, laundry centres

and industrial laundries require optimally automated processes to function effectively and wash in a manner that is gentle on the material. In this sector it is important have a professional partner you can rely on, who has products of the requisite quality.

We support our customers in achieving their growth targets. With passion, competence and innovation, we take on new challenges that arise from ever more rigorous requirements imposed on productive efficiency.



**Special machines are
used in many different
areas to automate
complex tasks as effi-
ciently as possible**

AN OFFERING THAT PAYS OFF

Sustainability, process automation and use of robots are playing an increasingly important role in the laundry industry. More and more industry players are focusing on process optimization to ensure that no unnecessary washing cycles are run through. In addition to our wide range of roll covers from our own production, we offer our customers an extensive service and consulting offering, such as individual tailor-made material solutions or just-in-time deliveries.

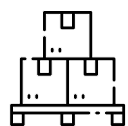
We meet the highest expectations in terms of consulting quality, product quality, product variety and delivery capacity. Our customers benefit from our many years of experience in international markets. Place your trust in our service and consulting offering.

We see ourselves as an innovation provider for customer-specific solutions.

YOUR ADVANTAGE

Ever increasing demands on machines and materials are almost part of the day-to-day routine. In this regard, the consulting and product quality of BOBOTEX® is often the detail that is lacking for your progress.





06/

Made-to-measure instead of mass production

Special-purpose machinery manufacture is the supreme discipline of mechanical engineering, with tailor-made solutions that are specially designed and manufactured to customer specifications. The range extends from the complete newly developed machine to machine components.

Special machines are used in a wide variety of areas to automate complex tasks as efficiently as possible. There is a need for automation in almost all industries, on the one hand to reduce production costs and on the other to increase productivity and quality. BOBOTEX® offers comprehensive, industry-overarching know-how in the field of special-purpose machinery manufacture, based on many years of successful business activity in a wide range of industries, such as the textile, paper and foil industries. In particular, the diversity of our industries is what makes the difference. Although many industries could

not be any more different, often they are confronted with the same problems. As an experienced partner of the special-purpose machinery manufacture sector, we are at your side and accompany you on your path to maximum efficiency.

FLEXIBLE PRODUCTS JUST IN TIME

High creativity, individual concepts and implementations are the heart of special-purpose machinery manufacture. Accordingly, the components used must meet highly-specific requirements. With

the competence of a quality and technology leader, BOBOTEX® offers the appropriate individual solutions for roll covers. In this regard, temporal efficiency in critical – whether for project milestones or delivery times. We offer reliable just-in-time delivery. Virtually our entire product portfolio is available globally.

QUALITY MEETS PERFORMANCE

The demands imposed on quality today go far beyond the resistance and longevity of the materials used; instead the focus is increasingly on the high quality of



—
And when
will you rely on
BOBOTEX®?

all aspects – from the overall system and extending to all linked processes. Quality management from BOBOTEX® ranges from product development to the manufacturing process to practical use. We also meet increasing demands in terms of flexibility. One of the central challenges in the special-purpose machinery manufacture sector are new requirement profiles, which in turn are rapidly replaced, making frequent modifications to machines and systems necessary.

With our competence we support you in achieving your goals within the set time-frame. Our production processes guarantee the highest possible performance and product quality. They also enable a high degree of flexibility and short response times to individual customer requirements.

HIGH-QUALITY AND EFFICIENT

Only products with the highest quality raw materials, the highest stability and the lowest possible wear can ensure optimum, efficient and high-performance plant operation. Consequently, global industrial companies rely on BOBOTEX® as their strategic partner for economic efficiency and profitability.

Our portfolio covers the entire value chain: from problem analysis, consulting, process and material development and extends to production and delivery. Nothing is so good that it cannot be made better. Our top position in the market was not a gift. Each day, every day we must be better and more flexible than the competition to successfully maintain our top position.

YOUR ADVANTAGE

Tailor-made solutions, especially in accordance with your desires. This is not only our own claim, but also what you can expect from us. Our roll covers are always the first choice. That's a promise!



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Branchenkompetenz

in Perfektion

Referenzbroschüre
